



# MINIATURE WIDEBAND RF AMPLIFIERS

0.5 – 10 GHz

## FEATURES

- Very Wideband Frequency Coverage
- Subminiature Size for Drop-In Application
- Low Power Consumption Options
- Flat Gain Response
- Internal Regulator Circuit for Unregulated Power Supplies



## APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics
- Telecom Infrastructure

## ENVIRONMENTAL RATINGS

Max Input Power.....100mW  
Operating Temperature Range.....-55°C to +85°C  
Storage Temperature Range.....-65°C to +125°C  
Shock..... 50G, 11 msec  
Vibration..... 20G, 100 to 2000 Hz

## Specifications: (@ +25°C)

| MODEL                                  | FREQ. RANGE (GHz) | MIN GAIN (dB)  | MAX GAIN VARIATION (+/- dB) | MAX N. F. (dB) | MAX VSWR | P OUT @ 1 dB COMP (dBm) | NOM DC <sup>1</sup> CURRENT @ +12V (mA) | OUTLINE        |
|----------------------------------------|-------------------|----------------|-----------------------------|----------------|----------|-------------------------|-----------------------------------------|----------------|
| A0540164A<br>A0540244A<br>A0540324A    | 0.5 - 4.0         | 16<br>24<br>32 | 0.5<br>0.5<br>0.75          | 4.0            | 2:1      | + 15                    | 140<br>180<br>220                       | 2A             |
| A1040164A<br>A1040244A<br>A1040324A    | 1.0 - 4.0         | 16<br>24<br>32 | 0.5<br>0.5<br>0.75          | 4.0            | 2:1      | + 15                    | 140<br>180<br>220                       | 2A             |
| A2060163A<br>A2060243A<br>A2060323A    | 2.0 - 6.0         | 16<br>24<br>32 | 0.5<br>0.5<br>0.75          | 3.5            | 2:1      | + 15                    | 140<br>180<br>220                       | 1B<br>1B<br>2A |
| A2080153A<br>A2080223A<br>A2080303A    | 2.0 - 8.0         | 15<br>22<br>30 | 0.5<br>0.75<br>1.0          | 3.5            | 2:1      | + 15                    | 140<br>180<br>220                       | 1B<br>1B<br>2A |
| A1080154A<br>A1080224A<br>A1080304A    | 1.0 - 8.0         | 15<br>22<br>30 | 0.5<br>0.75<br>1.0          | 4.0            | 2:1      | + 15                    | 140<br>180<br>220                       | 2A             |
| A0580145A<br>A0580215A<br>A0580285A    | 0.5 - 8.0         | 15<br>22<br>30 | 0.75<br>0.80<br>1.2         | 5.0            | 2:1      | +15                     | 140<br>180<br>220                       | 2A             |
| A3090144A<br>A3090214A<br>A3090284A    | 3.0 - 9.0         | 14<br>21<br>28 | 0.5<br>0.5<br>0.75          | 4.0            | 2:1      | + 12                    | 120<br>180<br>200                       | 1B<br>1B<br>2A |
| A2-10125A<br>A2-10185A<br>A2-10245A    | 2.0 - 10.0        | 12<br>18<br>24 | 0.75<br>1.0<br>1.25         | 5.5            | 2:1      | + 15                    | 90<br>120<br>150                        | 1B             |
| A1-10126A<br>A1-10186A<br>A1-10246A    | 1.0 - 10.0        | 12<br>14<br>24 | 0.75<br>1.0<br>1.25         | 6.0            | 2:1      | + 15                    | 90<br>120<br>150                        | 1B             |
| A05-10126A<br>A05-10186A<br>A05-10246A | 0.5 - 10.0        | 12<br>18<br>24 | 0.75<br>1.0<br>1.25         | 6.0            | 2:1      | + 15                    | 90<br>120<br>150                        | 1B             |

Note 1: Options for lower bias voltage are available

For Package Outlines see Outline Drawings Page